Subject: How to treat real detector data?
Posted by Ralf Kliemt on Tue, 27 Jan 2009 15:03:06 GMT
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Hi all,

The Mvd test sensors are taking data which I intend to stuff into our pandaroot analysis chain. There is a task developed to read the data and put it into a clonesarray via the framework. (see https://subversion.gsi.de/fairroot/pandaroot/development/mvddevel/mvd/Mv dDAQ rev. 4422)

However, there are some issues with the Run objects: The CbmRunSim is not really a good option to use (it works, though) because you will start the Monte-Carlo which is not needed and which really slows the whole thing down. The CbmRunAna is more preferable, but it reads a TChain, which still has to be created. Especially the Run function is setting the eventnumber according to the Eventnumber in the TChain.
Toggle Spoiler
```
if(Ev_end==0){
    if (Ev_start==0){
       Ev_end=Int_t((fRootManager->GetInChain())->GetEntries());
 }else {
      Ev_end =  Ev_start;
      if ( Ev_end > ((fRootManager->GetInChain())->GetEntries()) ){
         Ev_end = (Int_t) (fRootManager->GetInChain())->GetEntries();
      }
      Ev_start=0;
   }
 }else{
  Int_t fileEnd=(fRootManager->GetInChain())->GetEntries();
  if(Ev_end > fileEnd){
   cout << "------------------Warning--------------------------" << endl;
   cout << " -W CbmRunAna : File has less events than requested!!" << endl;
   cout << " File contains : " << fileEnd  << " Events" << endl;
   cout << " Requested number of events = " <<  Ev_end <<  " Events"<< endl;
   cout << " The number of events is set to " << fileEnd << " Events"<< endl;
   cout << "-----------------------------------------------------" << endl;
      Ev_end = fileEnd;
  }

 }
```

There are two possible solutions which come to my mind: Either we create a new CbmRun class which is there for taking CbmDetector modules (to have the panda geometry) and a list of tasks OR to set the CbmRunAna into a "DataMode" and simply skipping the eventnumber check in the Run function. Personally I'd prefer to have a CbmRunData (or CbmRunDAQ or whatever).

I'd be glad to hear an opinion on that.

Cheers, Ralf.